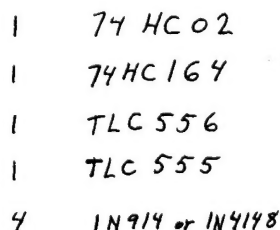


TO.....PARALLEL BY REX LUNDGREN CONVERTER



TT **TIMEXsinclair**
II **user group**
MM **News-Magazine**

LL -T/S-PUG
II -T/S-SUU
NN -S/T-EBZUG
EE -TCWT/S_SIG
ZZ -TAS-BAM, Inc.

FRONT

PAGE

PRINTED USING
Sinclair QL
PROFESSIONAL
COMPUTER AND
THIS PROGRAM.

DESK-TOP PUBLISHING
FOR THE SINCLAIR QL

TIMELINEZ INFORMATION

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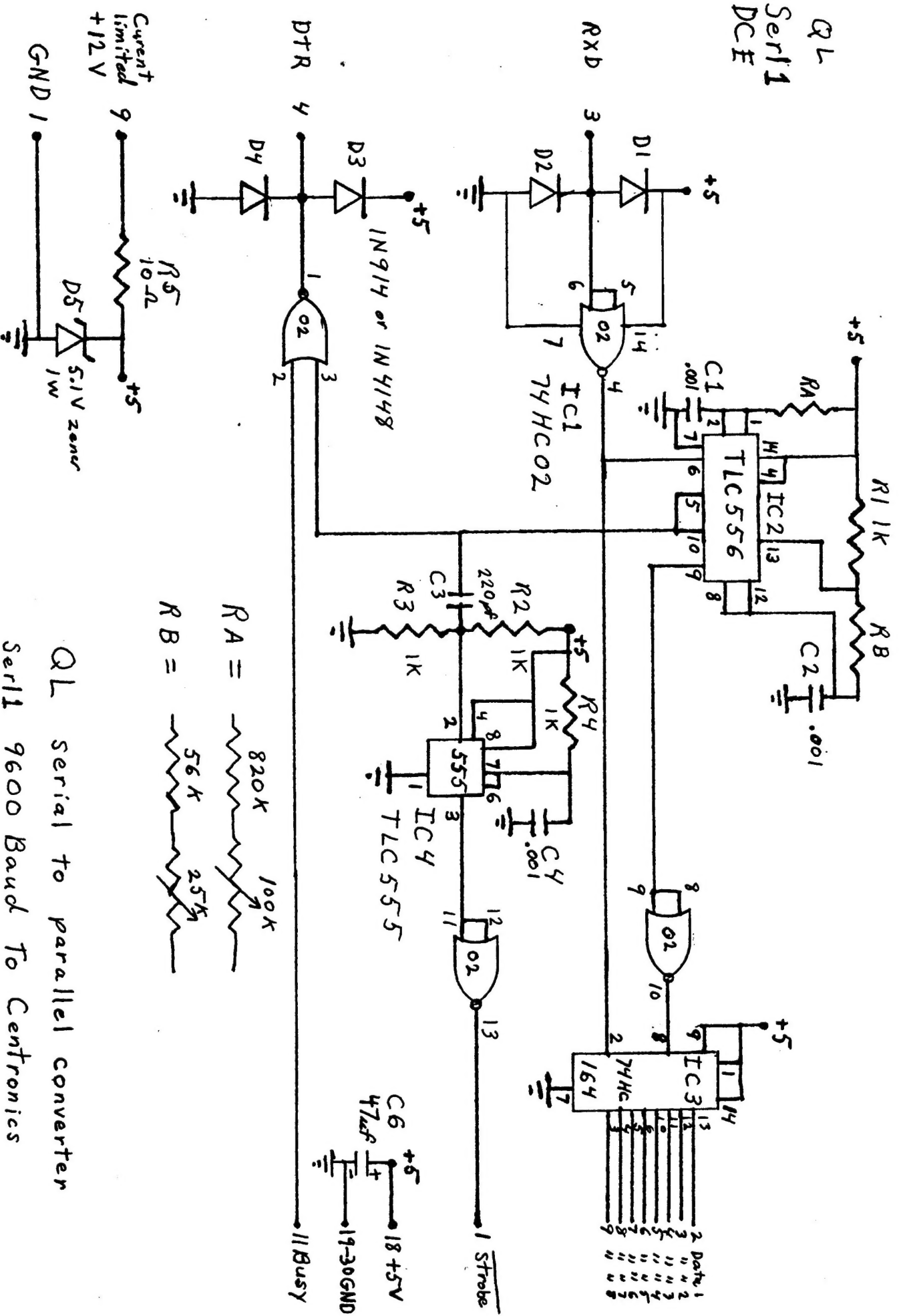
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 Contact Bill Miller at:

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Issues 1/88 - present,
 contact your editor at
American Micro.

The PDSE Library is
 now available to all;
 covering T/S1000-1500,
 T/S 2068, Spectrum and
 the QL.
 Contact **American Micro**
 for further details.

QL
Ser11
DCE



QL serial to parallel converter
Ser11 9600 Baud To Centronics

11RLL

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(Sc87C10A, Bytes 15770)..
7. SLIX Newspaper and Magazine
Index 8712 (4) (Sg8712_lis,
Words 572)...

Sr880102_1338 Sn88_END....

Sr890203.1108; Words 588; SLIX; Shareware file;;
Filename_ss89202c (qlogo) (lpage)...

QL LOGO documentation by: Tim Swenson...

Some time back I wrote an article talking about the lack of anyone using the turtle commands built into SuperBasic. I also suggested that someone knowing Logo could write some basic procedures to implement a variation of Logo on the QL. It looks like everybody has waited for me to take up my own challenge. After leaving my local library with a Logo book in my hand I set to work on the project..

Due to limitations of the turtle and graphics commands in SuperBasic not all of the Logo commands could be easily implemented. Below is a list of commands that are implemented..

FD X----- Forward. Moves the turtle forward X units..
BK X----- Back. Moves the turtle back X units..
RT X----- Right. Turns the turtle right X degrees..
LT X----- Left. Turns the turtle left X degrees..
CS----- Clearscreen. Clears the screen and returns the turtle to the center of the screen..
PU----- Penup. Stops the turtle from drawing when it moves..
PD----- Pendown. Makes the turtle draw when it moves..
SETPC X---- Set Pen Color. Sets the pen color..
SETBG X---- Set Background. Sets the paper color..
HOME----- Returns the turtle to the center of the screen..
CIRCLEL X-- Draw a circle from the left with center at the current turtle position with radius X..
CIRCRL X-- Draw a circle from the right with center at the current turtle position with radius X..
CLEAN----- Clear the screen with out moving the turtle..
SETPOS X,Y- Draws a line from the current turtle position to the coordinates X, Y..
DOT X,Y---- Plots a point at X,Y and moves the turtle to this position..
SETX X----- Draws a line from the current turtle position to a point offset X units in the X coordinate..
SETY Y----- Draws a line from the current turtle position to a point offset Y units in the Y coordinate..
SETH X----- Set Heading. Makes the turtle face a certain heading. The top of the screen is 0 degrees. The left is 90 degrees, etc..
INIT----- Initialise. This commands sets up the screen and the environmental variables. Must be run at least once at each session, or after each CLEAR..

The commands are entered like SuperBasic commands. Do not put () around the arguments. Commands with two arguments have a , between the arguments (i.e SETPOS 10,10). See the sample program listed below as an example..

All loop control is done using SuperBasic commands. The same is done with logical control.. The Logo commands are those that are graphics orientated..

To use the procedures, load the procedures into basic. Enter your program on top of the procedures. The procedures start at 9000 so you can use low line numbers. Once you have entered your program, save only that portion using a variation of the save command that allows you to save only the lines you want. To run your program again, load the procedures and then merge in your program..

Sample Program: ARROW:..

```
..
INIT..
CS..
FD 50..
LT 90..
RT 135..
FD 40..
RT 90..
FD 40..
RT 135..
FD 20..
LT 90..
FD 50..
RT 90..
FD 15..
```

I used the Apple Logo Primer by Gary Bitter as my reference manual on Logo. It has some good example programs in it. I do not know if other versions of Logo are compatible. Think they

should be...

Sr890202.1343 Ss89202c_END....

```
1989 Feb 02 14:50:50
real sys bt2 tap
9000 REMark Qlogo_890202.1432
by Tim Swenson..
9010 DEFINE PROCEDURE svc
9020 DELETE flpl_ss89202d_bas
9030 SAVE flpl_ss89202d_bas
9040 END DEFINE
9050 DEFINE PROCEDURE init
9060 OPEN #3,con 512x203a0r0_10
9070 SCALE #3,100,0,0
9080 xcenter=75; ycenter=50
9090 PENDOWN #3
9100 END DEFINE init
9110 DEFINE PROCEDURE FD(arg)
9120 MOVE #3,arg
9130 END DEFINE FD
9140 DEFINE PROCEDURE BK(arg)
9150 MOVE #3,-arg
9160 END DEFINE BK
9170 DEFINE PROCEDURE RT(argd)
9180 TURN #3,-argd
9190 END DEFINE RT
9200 DEFINE PROCEDURE LT(argd)
9210 TURN #3,argd
9220 END DEFINE LT
9230 DEFINE PROCEDURE CS
9240 CLS #3
9250 POINT #3,xcenter,ycenter
9260 END DEFINE CS
9270 DEFINE PROCEDURE PU
9280 PENUP #3
9290 END DEFINE PU
9300 DEFINE PROCEDURE PD
9310 PENDOWN #3
9320 END DEFINE PD
9330 DEFINE PROCEDURE SETPC(arg)
9340 INK #3,arg
9350 END DEFINE SETPC
9360 DEFINE PROCEDURE SETBG(arg)
9370 PAPER #3,arg
9380 END DEFINE SETBG
9390 DEFINE PROCEDURE HOME
9400 POINT #3,xcenter,ycenter
9410 END DEFINE HOME
9420 DEFINE PROCEDURE CIRCLEL(ar
g)
9430 CIRCLE R #3,0,0,arg
9440 END DEFINE CIRCLEL
9450 DEFINE PROCEDURE CIRCRL(ar
g)
9460 CIRCLE R #3,0,0,arg
9470 END DEFINE CIRCRL
9480 DEFINE PROCEDURE CLEAN
9490 CLS #3
9500 END DEFINE CLEAN
9510 DEFINE PROCEDURE SETPOS(arg
x,argy)
9520 LINE R #3,0,0 TO argx,arg
y
9530 RETURN 0
9540 END DEFINE SETPOS
9550 DEFINE PROCEDURE DOT(argx,a
rgy)
9560 argx=argx+xcenter
9570 argy=argy+ycenter
9580 POINT #3,argx,argy
9590 END DEFINE DOT
9600 DEFINE PROCEDURE SETX(arg)
9610 LINE R #3,0,0 TO arg,0
9620 END DEFINE SETX
9630 DEFINE PROCEDURE SETY(arg)
9640 LINE R #3,0,0 TO 0,arg
9650 END DEFINE SETY
9660 DEFINE PROCEDURE SETH(arg)
9670 arg=arg+90
9680 IF arg>360 THEN arg=arg-3
60
9690 TURNTO #3,arg
9700 END DEFINE SETH
```

1989 Feb 01 10:26:04
f1p1 sc8901 11s
Sf890201 091B;; Words 6388;;
SLIX (Sinclink Information
EXchange);; Contacts;;
Filename Sc8901 (Sfcb8)
(Pages 1f);;

SLIX Contacts and Newsletter
Exchanges, Jan. 1989
(Sc8901_46)....

Sc890131.1953-.2006 SLeeC;; Call
from: Sherman Lee 308-926-9381
(881115.1623)..
Sherman plans on getting
together with us to try to read
and write disks from his TS1000
AERCO system on the QL...

Sx890131 An892 4;; H(A)TS
newsletter February 1989, 4
pages;; Harrisburg Area Timex
Sinclair Users Group;; David
Bennett 717-774-7531;; 329 Rear
Walton Street;; Lemoyne;;
PA 17043;; USA..
Page. Description..
1. 288 mentioned on 890107
Computer Chronicles..

1989 CapitolFest ad..
890505-7..
301-439-8756 (voice)..
301-588-0579 (BBS)..
..

MacLite ad from Cambridge North
America;; 800-366-0088..
..

2. QL ACEY-DIGETY game listing
by Lee Gayman..
..

4. QL MSDOS emulator
description, and technical &
general specification from:..
RMG Enterprises..
1419 1/2 7th Street..
Oregon City;; OR_97045..
..

Dave:..
It appears we can read most TS
disk formats on our QL. Is HATS
newsletter available on disk?
Can we exchange newsletters on
disk?..
..

Sc890131 R0rrfeltL;; Letter
from: Bob
Orffelt 415-369-9136;; 3436 Bay
Road;; Redwood City;;
CA 94063..
"January 29, 1989..
..

Dear Bill,...

Got a phone call from:..
Nancy Street..
542 Branstetter Lane..
Redding;; CA_96001..
..

She has a TS2068 and is looking
for everything including
BBS's..
Reports one other TS2068 and a
TS1000 in Redding..
Andy is to send TIMELINEZ..
I sent San Mateo LogOn and Pixel
Print S16 info..
Also Lemke Software and Time
Designs addresses..
..

On disk drive formats I have:..
1 Western Digital Chip
information many, many pages..
1 "Floppy- Disk Data Storage" by
Robert Grossblatt 11 pages

(CD)..
1 Appendix A: The anatomy of an
Aerco Disc..
..

That is all for now..
Bob D*
Bob:..
Thanks for the info..
..

Do you have the Western Digital
WD-1770-PH Data sheet? This is
the chip in the Keapston Disk
interface we are using with our
QL. We seem to be able to read
10 sector per track disks with
it (Larken and JLD, we haven't
tried Aerco yet). We suspect we
may be able to read 11 sector
per track disks (Aniga, using
AnigaDos 1.3 with 512 byte
sectors)..
..

Was your letter done on your
Aastrad word processor? You
might consider bringing some
3in Aastrad and Timex 3000
disks to the next PUG meeting
and we will try to hook a 3in
drive up to our QL and see if
we can read them..
..

We will send a Sinclink to
Nancy..
Nancy:..
..

How about a report on the
Redding TS user group for the
newsletter? Hope to hear from
you soon..
..

Sc890130.1130-..1900_TSwensonV;;
Visit from: Tim
Swenson 703-820-3181 (880912)..
We discussed various SLIX and
ESFC projects and Tim told us
that one of his duties at the
Pentagon was to connect his
department to ARPANET (a close
relative to USENET). Sounds
interesting..
..

Tim also left us a copy of his
new game "Stellar Wars". This
is not a computer game, but
comes with a 20 page manual, a
Control Sheet, a Ship Data
Sheet, and a counter sheet..
..

Sx890130 Mn891 10;; SNUG BYTES
Jan. 1989, 10 pages newsletter
exchange;; Sinclair Milwaukee
Users Group;; Bill
Heberlein 414-527-2191;; Vice
President and Editor;; 5052 N.
91st Street;; Milwaukee;;
WI_53225;; USA..
..

Page. Description..
1. SNUG information and table of
contents..
2. "Bill on QL BASIC" QL "OPEN"
commands..
3. Bill is looking for a program
to keep statistics on dog
racing. Can anyone help?..
Sinclair Magazines:..
1 TimeDesigns..
1 UPDATE!..
c/o UPDATE magazine..
--- 1317 Stratford Ave. ..
--- Panama City;; FL_32404..
1 Quantum Levels..
c/o Quantum Levels..
--- P.O.Box 64..
--- Jefferson;; NH_03583..
1 QLUI..
c/o QLUI newsletter..
--- 419 Parkwood Dr. E. ..
--- Orange Park;; FL_32073..
(Are any of these newsletters
available on disk? Can we get a
list of the filenames with:
size, description and cost?)..
..

NEW QL PROGRAM for club
elections..
QL/IBM PC from Sharp's..
4. SEKTOR TUTORIAL by Dr. Lloyd
Breyer. (TS2068 Sektor program
by Howgli Assor)..
..

8. QL POKES..
9. THE DIGITIZER, TS2068 frame
grabber designed, built and
sold by SMUG:..
Assembled & tested: \$49.95+
\$3skh..
Bare board: \$19.95+ \$3skh..
Bill:..
..

Glad to see you guys have a QL
program available on disk. We
have found out in the last few
days that we can read Larken
and JLD disks on the QL using
direct sector read. We plan on
creating a QL procedure to
easily transfer files back and
forth on disk between QL and
TS2068 (and possibly TS1000)..
Can we exchange TS newsletters
and shareware on disk?..
Hope to hear from you soon..
..

Sg890129 Mncc;; San Jose Mercury
News Sunday Computing Section:
"Software freedom fighter";
Richard Stallman and GNU..
..

Sg890128 Cs892ugl;; Computer
Shopper February 1989 page 500
user group listings..
Computer Shopper seems to be
down to three TS User Group
listings..
..

These listings are a good way to
make TS users aware of sources
of help. Maybe some other user
groups could send in
information for listings..
TS User Group listings(3):..
313- GUTS/SV..
..

566- Quantum Leap User Group
(QLUG)..
c/o Gale Henslee 806-359-3219..
4411 West 2nd Avenue..
Amarillo;; TX_79106..
..

Gale:..
Does QLUG have a newsletter? A
shareware library?..
Can we exchange newsletters and
shareware libraries on disk?..
1023- Dallas Timex/ Sinclair/
Aastrad User Group (ST/S/A
UG)..
c/o David Baulch 214-252-5622..
4424 Geddes Ave. ..
Ft. Worth;; TX_76107..
..

David:..
Is "Data Expansion" available on
disk? Can we exchange
newsletters and shareware on
disk?..
..

Sc890128.2152_EMartinezC;; Call
from: Enrique
Martinez 415-841-2372;; 1920
Francisco, Apt. 201;;
Berkeley;; CA_94709..
..

Enrique found out about us from:
John Ezike..
Enrique has a TS1500 that his
girl friend got with a computer
course she took about 3 years
ago. He would like some
information on how to make the
chess game for it run faster at
"Level 3". It takes about 15min
to make a move..
He is also interested in getting
a printer and a MODEM for it
Enrique:..
For a printer and MODEM, try the

folks marked in Sc890119..
It would help others if you
could keep us informed of your
progress..
We hope to hear from you soon..
..

Sc890128_TCH_TS_S16 14 meeting..
Discussion leader: Fred Waters..
Gene Lamborn reported on the San
Quentin inmate computer
education project..
..

Sc890127 SAndersonD;; 5.25in
800K LKDOS disk with note from:
ATSUB;; Steve
Anderson 404-929-3875;;
Position?;; P.O.Box 701;;
Lithonia;; GA_30058..
..

"Dear Mr. Miller,..
I have the Larken DOS for the
RAMEX MK, and I don't have a
Larken Disk manual. How much
would you charge me to copy
your manual, and mail it to me?
If you could do this, I would
be much obliged..
Bill's Obsession is back up,
under the name Wizards
Workshop..
..

I would appreciate it if you
would help me spread the word..
A friend of mine told me about
your disk exchange, so I
decided to send you a disk of
most of my shareware files. If
there are any Larken Disk
utilities that are shareware,
please send them on the return
disk..
..

Sincerely,...

Steve Anderson..

Lk89128a_txt
Name Blocks
FORMAT.BR 1
Hcode.Cr 2
JBBS.B1 3 4 5 6 7 8 9 10
Move.B1 11
Move.C1 12
64col.B1 13 14
FAYE.Cr 15 16
RONNIE.Cr 17 18
ALICE.Cr 19
CLIVE.Cr 20
SEAGOD.Cr 21 22
COPTER.Cr 23
WALL.Cr 24 25 26
HORSE.Cr 27 28
HI.Cr 29 30
ENTRPR.Cr 31 32
PRES+6.Cr 33 34
REAGAN.Cr 35
2068.Cr 36
SPOCK.Cr 37 38 39
BYRD.Cr 40 41
CHALL.Cr 42 43
NAVIG.Cr 44
SPACER.Cr 45 46
CATHY.Cr 47 48
AL.Cr 49 50 51
BARDIE.Cr 52 53 54 55
ULISTA.CT 56 57 58 59
ULISTB.B1 60 61 62 63
ULISTC.CT 64 65 66 67
BULLET.B1 68 69 70 71 72
64col.C1 73
TIC.B1 74
TINYBD.B1 75 76
TDIAL.B1 77
header.B1 78
rlepro.B1 79
LLS.B1 80
ATTACK.B1 81 82 83 84
KBORD.B1 85
GRAPH.B1 86 87

QUEST.B1 88 89 90 91
 MEDEXP.CT 92 93 94 95
 SPCBRL.CR 96 97
 DECK3.CR 98 99
 INTELL.CT 100 101
 CHUNKS.CT 102
 SPECT.CT 103
 GFIX.B1 104 105
 INVERT.B1 106
 script.B1 107
 BLAKJK.B1 108
 GROUP.CT 109
 apples.B1 110
 Break.B1 111
 chekrs.B1 112 113
 dbustr.B1 114
 drace.B1 115
 drips.B1 116
 derby.B1 117
 drop.B1 118
 eggs.B1 119
 hiway.B1 120
 aship.B1 121
 hangan.B1 122
 nessie.B1 123
 trap.B1 124
 spider.B1 125
 uboat.B1 126
 sky.B1 127
 akount.B1 128 129
 bankr.B1 130 131
 bio.B1 132 133 134 135
 NOPARK.CT 136
 Orle.B1 137
 Orle.C1 138
 TANG.B1 139
 UF1LE2.B1 140 141 142 143 144
 145 146
 UNIF.B1 147 148 149 150 151
 152 153
 asort.B1 154 155
 TDB.B1 156 157 158
 TDBDOC.CT 159

Steve:
 Thanks for the disk(s) and the TS2068 shareware files.. Although we have a TS2068 and borrowed Larken system (not set up) we prefer to do all file manipulation on the QL since we can copy QL disks to MSDOS disks and back, all on the QL drives..
 It turns out, we can also read LKDOS disks on the QL (we tried for the first time today).. We also seem to be able to read JLD disks on the QL..
 Our next project will be to try to write Larken and JLD disks and then we can return your disk with any shareware you choose on it..
 A partial list of our TS2068 shareware files is marked in the attached Sn89lp2 "8 B81228.1011/Letter from: Bob Kuster".
 Some of the files appear not to be shareware, but we will try to sort things out and send you an 800K disk with all shareware on it and try not to duplicate any of the files you sent us..
 For a Larken disk manual, we encourage you to contact..
 Larken Electronics..
 c/o Larry Kenny 613-835-2680..
 RR82..
 Navan; Ontario K4B-1H9..
 CANADA..
 If Larry can't supply it, we can send you a copy of the one we have for \$0.25 per page (11 pages = \$2.75)..
 We would prefer you try Larry

first, and try to find out from him if a single sector can be read from an LKDOS disk. We are working on a SEARCH program for the QL, TS2068, and TS1000 and we need this information..
 The object is to be able to search all the information on your disk(s) for anything you wish. Your help will speed the project along..
 Hope to hear from you soon...

Sc890125 TSsve B;; GUTS/SV meeting;; Attendees: Bill Miller, Mark Wahl, John Hancock and his son: Ken, Andy Hradesky, Gil Basengill, Bob Orrfelt, & Steve Nichols..
 Bill brought SLIX contacts and exchange newsletters:..
 Sc890135?..
 Sx89016?..
 Sc881231..
 Sx881210..
 Mark demoed his Networking program (still under development)..
 John volunteered to help transfer any exchange newsletters on Macintosh disks to the 'file server' BBS..
 Gil volunteered to contact John Olliger about reading and writing a STANDARD 9 sector per track disk on the TS2068 JLD disk system..
 Bob demoed his TS1500/ 1000 'Chaos' program from Scientific American 1985..
 Reference: 'Chaos; Making a new science' by: James Gleick..
 Application: Fluid flow, weather prediction..
 Steve reports his 'File server' BBS is working pretty well although he has a few bugs that need to be corrected..
 He also reports he was given a 'California Computer Products' CP/M computer with (2) 8in disk drives (don't drop them on your foot!)...

Sc890124 EMSOFTC;; Catalog from: EMSOFT (Sc881114); Peter Hale 617 889 0830;; Proprietor?;; P.O.Box 8763; Boston; MA 02114-8763; USA...

Sc890124 RHurdL;; Letter from: Richard Hurd and tel numb?;; PDB 231; Seaside; DR 97138..
 Richard found out about us from TimeDesigns88at9 which he just received..
 He would like more information about SincLink..
 He has a TS2068 with LKDOS and (2) 3in Aadek drives and a Tandon 5.25in-80track (quad density) drive..
 Richard enclosed \$1 in stamps..
 Richard:..
 Thanks for the stamps!..
 As you can see, we are trying to create a STANDARD TS disk format to make exchanging shareware easier. We suspect it will turn out to be as described on Sn89lpagel (attached)..
 If you could contact Larry Kenny about reading and writing an MSDOS disk with LKDOS, it would help the project along..
 A list of files which may be

available (less the commercial ones) is listed in Sc881228.1011/Letter from: Bob Kuster (marked in Sn89lp2).. This is supposed to be a shareware EXCHANGE. Do you have a list of files to exchange?.. Hope to hear from you soon...

Sc890121 TCM TS S16 10 meeting.. Discussion leader: Fred Waters..
 Topics: UNIX, workstations, ENACS, Calif. lottery..
 ..

Carl Linden reports:..
 FIDOcon89..
 August 24-27, 1989..
 San Jose, CA..
 Holiday Inn (downtown)..
 American Airlines (official airline)..
 Contact:..
 Carl Linden:..
 FIDOcon89 chairman..
 408-248-9701 voice..
 408-248-0198 BBS..
 ..

From: Antony King:..
 Microcomputer Expo! for Lockheed employees and their guests..
 Saturday, February 4th, 10am-6pm, Techmart, 5201 Great America Parkway, Santa Clara..
 ..

From: Dick Delp:..
 Dick reports the academic secretary of the Stanford Math Department suggests we send her a letter to formalize our Stanford status. Dick plans to do this...

Sx890120 Cn891_6;; CRAGIST Jan. 1989, 6 pages newsletter exchange;; Cedar Rapids and Greater Iowa Sinclair Timex Users;; Don Lambert 319-364-4330;; Editor;; 3310 Clover Drive S.W.;; Cedar Rapids;; IA 52404..
 1. BATTERY BACKUP (for the TS1000) by Donald S. Lambert..
 In a separate note, Don asks 'How do you store drawings to disk if you don't have CAD or Auto-Cad?'. Don also reports he sent a copy of Cn891 to Chuck Marshall for his home control system..
 Don:..
 Your question about the drawings (especially schematics) is a good one. Mark Wahl is looking into a writing a QL 'Draw' program which will allow the user to manipulate a picture on the screen, but will have a series of 'Draw' commands as a file for output to disk..
 If he can get this working for the QL, perhaps you can convert it to work for the TS2068..
 Is CRAGIST available on disk? Can we exchange newsletters on disk?...

Sc890119.1646-.1653 Call from: Theron Lutz 318-984-6794;; 215 Elmwood Drive;; Lafayette;; LA 70503..
 Theron found out about us from Computer Shopper..
 His father has a TS2068 and he is looking for a source of software and a parallel printer interface for it..
 Theron also has a PC clone..
 Theron:..
 Thanks for your interest.. For software you might try Tim Ward (below), or some of the TS vendors listed in the attached Sn891. The TS vendors are also a good source of TS2068 parallel printer interfaces, especially:..
 RMS 503-635-7484..
 Zebra 718-296-2385..
 Foote 904-462-1086..
 AERCO 512-451-5874..
 Ed Grey 213-759-7406..
 It would help others if you could keep us informed of your progress..
 We look forward to hearing from you...

Sc890117 2n891 20;; ZX-Appeal Jan. 1989, 20 pages..
 Rod:..
 We can now read and write an MSDOS disk on our QL's..
 Is there any chance ZX-Appeal is available in any of the disk formats listed in Sn89lp1?..
 Can we exchange newsletters on disk?...

Sc890117.1646-.1653 Call from: Theron Lutz 318-984-6794;; 215 Elmwood Drive;; Lafayette;; LA 70503..
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 It would help others if you could keep us informed of your progress..
 We look forward to hearing from you...

Sc890119 TS Shareware list from: Timex Sincfair Public Domain Library;; Tim Ward and tel-numb? (Sc881228);; 5142-D Ginkgo Drive S.W.;; Tacoma;; WA 98439..
 Tapes available from Tim for \$4.00each (make checks payable to Tim Ward) till 890224..
 After that, contact:..
 SNUG (Sinclair Northamerica User Group)..
 c/o Mel Nathanson 813-863-5552..
 7515 Arbordale Drive..
 Port Richey;; FL 34668..
 ..

TS2068;; 60min tapes:..
 Tape number 2001;; 62 files..
 Tape number 2002;; 29 files..
 Tape number 2003;; 14 files..
 TS1000:..
 Tape number 1001;; 34 files..
 Tape number 1002;; 69 files..
 Tape number 1003;; 56 files..
 Tape number 1004;; 37 files..
 Tape number 1005;; 31 files..
 Tape number 1006;; 9 files..
 Tim:..
 Thanks for the list. We would like to add it to the SLIX permanent database if we could get it on disk or tape so we don't have to type it in...

Sc890118 SharpC;; Catalog from: Sharp's;; Mark Steuber 804-730-9697;; Proprietor?;; Box 326;; Mechanicsville;; VA 23111;; USA..
 New:..
 \$ IBM Emulator;; \$149.95..
 \$ Trump Card 256K;; \$249.95..
 \$ Turbo Compiler;; \$99.95..
 \$ BASIC (convert SuperBASIC to "C");; \$69.95...

Sx890117 Kn891 4;; KATS KOMPUTER KNEWS Jan. 1989, 4 pages..
 Randy:..
 We can now read and write an MSDOS disk on our QL's..
 Is there any chance KATS KOMPUTER KNEWS is available in any of the disk formats listed in Sn89lp1?..
 Can we exchange newsletters on disk?...

Can we exchange newsletters on disk?...

Sc890117 MacLite(tm) catalog postcard from: Cambridge North America (CNA 800-366-0088)...
MacLite (8849) includes:..
* Cambridge 288 portable computer..
* 128K memory cartridge..
* Serial to serial (RS232) cable..
* MC Organiser(tm) program for Mac..
* File transfer programs for 288 and Mac...

Sc890117 Letter (postmarked 26.12.88) from:..
Oscar Eugenio Macia..
Billinghurst 1565, 2°g..
(1425) Capital Federal, BS. AS..
Argentina..
*Hello Bill!..
How are you? I'm O.K. I've finished the first English course (In TOUCH 1, 2, & 3). The next year (work?) I'll begin LIFESTYLES (3 books too)..
I've enclosed \$12 for ad half page..

ATTENTION: I'm sending a C90 tape with many demos for you and the TS owners. Maybe you'll receive it the next week..

I had to use separate envelopes because (of) the money (\$12). The following are some demos (playable and non playable demos): Rambo III(pl); Robocop (pl); Total Eclipse (pl); Cybernoid 2 (pl); Last Ninja 2 (spl); Street Fighter (pl); Led? Storm (pl); Rex (pl); Thunderblade (pl); Virus (npl); Barbarian 2 (npl); and some more (pl)=playable; (npl)=non playable.. I'm doing the compatible loader (not too easy!). Maybe you MUST USE a SPECTRUM EMULATOR (ROM or cartridge)..

Don't reply before you receive the tape (only wait one week). Please answer me after you see the demos of full games that I've?..

Best wishes, Merry Xmas and Happy New Year..
O Eugenio..
Eugenio:..

Thanks for the ad and the list of TS2068 game demos..
The ad is 81 columns wide and our standard is 64 columns for half page, so it may get a little small when we reduce it to fit. If it had been on MS(PC)-DOS disk we could have changed the margins to 64 column to fit our standard half page size without retyping it in. Also, we wouldn't have had to type in your note..
Can you read and write an MS(PC)-DOS disk? Perhaps we could exchange info on disk? Perhaps even TS2068 programs (demos and shareware)?...

Sx890115 Tn88c 14; TIMELINEZ Dec. 1988, 14 pages...

Sc890115 TSPUG Meeting; Attendance 20..
Jack Dohany acted as discussion

leader and brought the video tapes of the 1988 Northwest TS test in Oregon and displayed them on the TV/Monitor in the meeting room..

Jack also reported on the 'Linger board' (880 kit, \$110 assembled and tested) which allows the attachment of an IBM style keyboard and 80 column monitor to the TS2068..
Jack says he is about 95% finished with a program to convert ASCII files to TS2068 Tokenized BASIC. This would allow us to exchange TS2068 Shareware programs on MSDOS (standard?) disk as text files..

Walt Johnson and John Hancock demoed their new Z88's..
Walt contributed a Z88 review from Radio Electronics 8902 pages 96, 97, 98 to the SLIX document library..
John Hancock reports his Z88 works fine as a portable Macintosh and transferring files from the Z88 to his Macintosh and back is very easy..

Mora Lehtfeldt demoed his new Z88 and 1200bps 'Pocket MODEN'..
Bill Miller brought SLIX contacts and newsletter exchanges:..

Sc890122..
Sx89014..
Sc881251..
Sx881210..
Rex Lundgren demoed his QL and Serial to Parallel cable of his own design. Rex also provided SLIX and TIMELINEZ with a schematic and 'theory of operation' for his design..

Rex also demoed his new color printer for the QL..
Rex borrowed ESFC QL 913-003907 and power supply S13-004069 for use in his CMOS ram expansion, QL expansion buss, and microdrive enhancement projects..

George Goodman reports he is looking for a good genealogy program (that he can modify to suit his own needs) for his MSDOS computer. Can anybody help?..

George Mockridge borrowed SLIX's 'HACKER 891' for inclusion of items from page 3 in the TIMELINEZ newsletter exchange page..

Kevin Leung borrowed ESFC documents (Sc881228):..
*How to use USENET effectively..
*How to read the network news'...

Sx890114 Pn891 B; PACC TALK Jan. 1989, 8 pages; Pittsburgh Area Computer Club; Ralph J. Vasko 412-379-8762;..

Contact?; One Virginia Dr.; Donora; PA 15033; USA..
Pn881 Contents:..
1. PACC information (officers and SIG leaders)..
2. Why Join a Computer Club? by: Phil Cutrara 412-321-3181; President..
4. Pittsburgh area BBS list 139..
Ralph:..

The PACC information, 'Why Join

a Computer Club' article, and BBS list are interesting. Are they available on disk?..

Can we exchange newsletters on disk?...

Sc890114 TCW TS SIG Meeting.. Dick Delp did not attend, so our Stanford status is still undefined...

Sc890113/Post card from: Base-net BBS 615 837 8352; 213 Holly Ave. So.; Pittsburgh; TN 37380...

Sc890113/Note to: Donald Lambert.. Don:..

As you can see, we got the subscription information for you.. We will try to get the Sync's in today's mail.. Please return them within 30days to avoid subscription/ deposit deductions (10% per month)...

Sc890112 2025/Call from: Andy Hradesky.. Andy reports TIMELINEZ 8812 should be ready for the TSPUG 890115 meeting.. He says the Donald Lambert dues TIMELINEZ subscription information is:..

Paid date 881201.. Amount 15..
Last issue 8908..
Andy hasn't had time to open our Sc890104 package to him yet.. He suggests changing the 'doc' extension to 'lis' for 'iba README.doc' and 'iba IBNCPY.doc' which we couldn't import into quill.. Andy also says he has heard rumors of a hard disk (SCSI?) interface that plugs into the QL cartridge port, but he doesn't have any technical information, source, or price...

Sc890112/Disk 720 sectors from: Tina Swenson..

1000 Fls 890108 1317 (Files).. Copy, Delete, Move..

current device:.. to devices:..

flp2 nodiskna A: diskname

471/720 sectors 471/720 sector

old new

Cfilenane_ext bytes filename_ext

asds_dir 87370

. 28 asds .bot

. 300 asds160K.def

. 301 asds320K.def

. 301 Aprc315K.def

. 302 Aprc630K.def

. 724 asdsdisk.inf

. 2048 asdsrdac.doc

. 27638 asdsdcp .doc

. 55728 asdsdcp .

Core War bas 5339 corewar .bas

corewar.doc 6144 corewar .doc

logo.bas 1639 logo .bas

qllogo.doc 4105 qllogo .doc

README.doc 4096 E188112a.doc

Tia:..

Thanks for the disk. We will publish your letter and the two programs and docs in Sn892 if that is alright with you..

As you can see, we are trying to

keep our filenames MSDOS compatible so that is not another hassle to go thru.. Thanks for putting your disk in a regular disk mailer, but we have been experiencing with a regular envelope to see how bad the Post Office bends it up.. We will send you ESFC Menu; the program that holds everything we have been working on for the last year. It should keep you amused for at least a year.. When it first runs, press the 'n' key for c(n)fg (configure-set up the ram disk and set the time)..
Pressing 'h' (for help) is fun.. If you have questions, first 'edit' the first line of the PROCEDURE, then scroll thru it with the 'up arrow' or 'down arrow' keys..
If you still have questions, don't hesitate to contact us.. Maybe when you come back here 890123 to 890202, we can find you a 3.5in 720K drive to take back with you..
Tia:..

We just tried deleting and writing some files to your 40 track diskette on our 80 track drive and got a 'read only' message..
We had heard that 80 track drives could not reliably write 40 track diskettes because of different track widths..
We will attempt to add a 'direct sector write' to ESFC Menu tomorrow at our regular ESFC workshop meeting Saturday afternoon..
If we are successful we will send you your diskette back with the sectors directly written. We may not be able to update the directory (so far we haven't even been able to FIND it). You may have to do a direct sector read to read it.. Perhaps you could consider bringing your drive back with you, and perhaps we could get together at the 890125 GUTS/SV meeting at the Cupertino Library..
In the meantime, we will enclose a printout of ESFC Menu in case you want to look it over and perhaps type in the 'asds' procedure..
We could also try to send you the files on microdrive cartridge, but that could run into compatibility problems too..
Sc890111/Note to: Pete Fisch (Sc861027); P.O.Box 2002; Tempe; AZ 85281..
Pete:..

We are attempting to design a system which will link TS computers with other computers to be used as File servers..
From a contact with Steve Nichols (Sc881203 1634) we suspect we need the XMODEM, YMODEM, and ZMODEM definition files by Ward Christiansen and Chuck Forsberg..
Can you help?..

Uploading them to the LogOn/SV BBS or sending them on disk in any of the formats listed in Sn8901p1 would allow us to add

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As you can see, we got the subscription information for you.. We will try to get the Sync's in today's mail.. Please return them within 30days to avoid subscription/ deposit deductions (10% per month)...

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current device:.. to devices:..

flp2 nodiskna A: diskname

471/720 sectors 471/720 sector

old new

Cfilenane_ext bytes filename_ext

asds_dir 87370

. 28 asds .bot

. 300 asds160K.def

. 301 asds320K.def

. 301 Aprc315K.def

. 302 Aprc630K.def

. 724 asdsdisk.inf

. 2048 asdsrdac.doc

. 27638 asdsdcp .doc

. 55728 asdsdcp .

Core War bas 5339 corewar .bas

corewar.doc 6144 corewar .doc

logo.bas 1639 logo .bas

qllogo.doc 4105 qllogo .doc

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Core War bas 5339 corewar .bas

corewar.doc 6144 corewar .doc

logo.bas 1639 logo .bas

qllogo.doc 4105 qllogo .doc

README.doc 4096 E188112a.doc

Tia:..

Thanks for the disk. We will publish your letter and the two programs and docs in Sn892 if that is alright with you..

As you can see, we are trying to

them to the SLIX database without retying them.. Thanks for any help you can provide...

Sc890111/Note to: Computer Shopper (Sc880922) User Group Listings Mos. 313 (GUTS/SV); 465 (TSPUG); 44 ? (TSEBZUG); c/o FOG; User Group listing; P.O. Box 3474; Daly City; CA 94015 0474..

Thanks for listing GUTS/SV in the User Group listings.. Perhaps you could add:...

TINEX SINCLAIR PENINSULA USERS GROUP (TSPUG), George Mockridge, P.O.Box 1312, Daly City, CA, 94044. Supporting Timex Sinclair...

Sc890110 Lichtenstein_15check.. Howard Lichtenstein and tel numb?; 2719 Weaberly Dr.; Belmont; CA 94002...

Sx890110 Bn88n7 8 (Sx890109); TS Bulletin #7 1988, 8 pages with 2 page letter and 1 page catalog sheet of newsletters and booklets; from: Bill Harner..

Bn88n7 Contents:..
2. ZX81/TS1000 Program Listing- Decibel Conversion..
3. Programming at the CPU Level- Machine Language for Fun..
4. Programmable Chips for Computer Accessories (Hardware Insight)..
5. the Early Computer Revolution- Switching from Punched Cards..
6. the Very Latest in Computers Quickly Becomes only Nostalgia..
7. Using Programming in Other Than Built-In BASIC (ZX81/TS1000)..
8. More on Computer Breakdown (Hardware: ZX81, TS1000, TS2068)...

TS_Bulletin Publications 6:.. Newsletters 3 (back issues 92 each)...

TS Bulletin- for Timex-Sinclair home computer users with a focus on ZX81/TS1000, computer literacy, history of technology and computing and with some support of other Sinclair computers like: TS1500, TS2068, QL, Z88, MSDOS (Amstrad), PC8300 and having fun with computers..

TS Hardware and Software Developers Newsheet- An occasional publication of addresses, and news relevant to Timex-Sinclair computer hardware hacking and software development and TS aftermarket product vendors and User Group newsletter activity..

Home Computer Orphan Survival Newsletter- a newsletter with much the same mandate as the TS Bulletin but for those who own a low cost home computer other than a Timex-Sinclair, especially one that is not well supported by the glossy or other large magazines.. Booklets 3 (\$10 each)...

Assembly Language Programming for the ZX81/TS1000 Timex-Sinclair Home Computers.. The Unofficial Master Guide to the Larken ZX81/TS1000 (LDOS) Disk System (for Timex-Sinclair)..

Famous Computers (to appear)- History of Computers for the Hands On Computer Afficionado..

Bill:.. Good to hear from you again so soon. We would have published your 2 page letter, but I don't want to type it in..

Thanks for Bn88n7. We suspect that completes our 1988 TS Bulletin collection.. Glad to hear you have a PC clone with 5.25in 360K drive..

Is TS Bulletin available on 360K disk..

A TS Bulletin Index would be a good place to start..

How about an article on 'How I Hooked my TS1000 up to a PC clone and Exchanged TS1000 Shareware on 360K MSDOS (or MINIX) Disks'?

Who gets to call their newsletter files 'Bn89xx'? It's a race between TS Bulletin and BoSTUG ML..

Newsletter Filenames already taken:..

Hn89xx- HACKER..
Sn89xx- SincLink..
Tn89xx- TIMELINEZ..

Since the back issues of SincLink will take a large envelope, we will enclose an MSDOS 360K disk with:..

HACKER files (Sx890105).. Batchfil.Mur 81987 (Sc880919).. Dosinfo.asc 25055 (Sc881210).. Tell us how bad the disk gets bent up in the mail..

These disks are US\$0.27...

Sc890109 BoSTUG_ML note to: Peter Hale..

Peter:.. Seeing BoSTUG mentioned in TS Bulletin reminded us that we hadn't replied to your offer to exchange newsletters (Sx880916)..

As we told Bill Harner, we intend to answer newsletter exchanges as soon as possible after we get them in 1989 instead of having a regular mailing..

Is BoSTUG_ML available on disk?..

Can we exchange newsletters on disk?..

Can we exchange TS_shareware lists?..

Please accept our apologies for taking so long to answer.. Hope we hear from you soon...

Sc890109 TS_SIG_SD note to: Tim Edwards..

Tim:.. As you can see, we just found out about your group from TS Bulletin..

Do you publish a newsletter?.. Can we exchange newsletters? On disk?..

Can we exchange TS_shareware lists?..

Hope to hear from you soon...

Sx890109 Bn88n8 8 (Sc881228); TS Bulletin #8 1988, 8 pages..

Bn88n8 contents:..

2. ZX81/TS1000 Larken Disk Utilities..

3. Famous Microprocessors- the First Microcomputer CPU's..

4. Famous Computers- the DEC PDP 11..

5. Pascal on the Timex Sinclair..

6. What to do with your Home Computer..

7. Getting a Disk Drive for your Timex Sinclair..

8. It takes all Sorts (Alphabetic and Numeric Sorting)..

Bill:..

It is good to hear from you so quickly.. We are going to try something a little different for the SLIX Newsletter Exchange for 1989..

Instead of mailing out Elchange SincLinks on a regular basis, we will try to answer each newsletter as we receive it, with our latest information..

Strange you should cover Sorts in your latest newsletter..

We began work on the QL PROCEDURE to Search the SLIX Permanent Data Base on 890107..

The steps we are using are:..

1. Sort directories chronologically into LIFO (last in, first out) order..

2. Sort files in each directory into LIFO order..

3. Create Keyword (words that are capitalized) Array from first file with keyword Address (number of bytes from front of file)..

4. Sort keywords (this takes about 1 hour for a 55Kbyte (7000 word) file (Sc8812 lis) using a 'Shell' sort in QL SuperBASIC)..

5. Remove duplicates and create Keyword table with 1 record for each keyword with the following comma delimited fields:..

Field1- (fixed length, 4 bytes) -Frequency..

Field2- (variable length) -keyword..

Fields3toN- (variable length) -keyword address(s) in file..

6. Repeat for all files and directories until entire data base is done..

When we do a 'search' we enter the srch procedure by typing 'srch' at the prompt..

We are prompted for 'Keyword?':..

Typing in a few letters and pressing 'enter' provides us with a list of keywords starting with those letters (in alphabetical order) with the cursor positioned on the first keyword..

If we 'enter' a string which is not in the keyword table, the 'srch' procedure begins a linear search thru the data base and displays the first occurrence of the string..

The string is added to the key word table and a search for additional occurrences is carried out as a separate 'background' task..

We can use the up/down,

right/left arrows (or mouse) to position the cursor on the desired keyword..

Pressing 'space' shows us the first record containing the keyword with a flashing cursor on the keyword..

Each time we select a keyword, a bit is 'pushed' onto the frequency field so that if we ever want to reduce the size of the keyword table, we can delete infrequently used keywords..

Since this entire procedure is written in SuperBASIC, it is easy for the user to modify it to search for records with multiple keywords and direct the output to a file instead of, or in addition to, the screen..

How do we do this on a TS1000, you ask..

We are investigating hooking up the TS1000 to a PC clone box (less than \$200 at your friendly local PC clone dealer-less disk drive controller and disk drives- your choice on how much you want to spend on these) thru a serial interface..

For an operating system we use MINIX (a close relative of UNIX V7 I'm told..

Reference:.. Ej840724 8.00 dac cac 'a User Guide to the UNIX system' 518 pages from: Silicon Valley Surplus..

Ej841221 6.00 dac cac 'UNIX command summary for System V' 50 pages from: Computer Literacy Bookstore)..

We write all the search and sort procedures in 'C' (same as we will have to do on the QL if we want them to be FAST)..

The MINIX System is more or less public domain..

We have an early version which runs on a 512K 8088. It comes on 7 360K disks (source code)..

We also have 18 megabytes of MINIX articles from USENET (50 360K disks). These will tell you more than you ever wanted to know about operating systems..

Is there any chance that your TS1000 and Larken disk drive can write an ASCII file with Upper and Lower case to an MFM, 512 byte/ sector, 9 sector/ track disk?..

Maybe we can exchange newsletters by disk. Keep us informed of your progress, and we will try to do the same..

Can we exchange TS_shareware lists? Do you have a printout of the directory of any shareware disks you have for the TS1000 Larken?..

According to Sx88 (Sn891p6, attached) we seem to be missing TS Bulletin88 7. We have included Sn889t7 & Sn889t8. This should bring your Sn88 collection up to date. Could you please send us TS Bulletin88 7 to bring our TS Bulletin88 collection up to date?..

Thanks for the information on: TS_SIG_SD, San Diego Computer

Society;; Tim
Edwards acd tel numb?;; 8155
Janacha Rd.;; San Diego;;
CA 92114...

Sc890107 TCM TS SIG Meeting;;
Attendance 12...

Sc890104 Note to: Donald
Lambert..
Don't...

No matter what it says in
SinLink 8901, as you know, we
haven't sent you the Sync's.
This 'TIMELINE' Subscription
Verification' is turning out to
be a little harder than we
thought it would be..

Sorry it is taking so long to
get you the Sync's you ordered,
but we need the date you paid
your TIMELINE subscription,
the amount, and the last issue
you will receive (if you know
it)..

As you can tell, we are just
beginning this 'Library Loans
for Deposit' system, and it may
take a while to work the 'bugs'
out..

Thanks for being so patient...

Sc890105 1759-1815/Call from:
Richard Matejovic
(Sc881217 1818);;
614-263-0447..

Richard reports he fixed his CAI
Stringy Floppy interface board
by repairing a solder bridge on
it..

Now the stringy floppy won't
work when the TS2040 printer is
plugged into the interface
board. Richard suspects he saw
an ad for a product to cure
this in a back issue of Sync or
Syntax. Can anyone else help?..

Richard also says he is about
ready to start publishing his
newsletter: 'the Columbus
(Ohio) TS1000 Survivor'..

He has been writing his own word
processor. He suggested he try
using THE ORGANIZER (VU-FILE)
as a poor man's word processor
(from TIMELINE 8308-9 page
1)...

Sx890105 1748 HACKER 21files;;
TSUB/Las Vegas ;; Steve
Sawchuk;; Editor..

Steve reports that some of the
text was cut off and HNB901P7
was destroyed..

MS(PC)-DOS 5.25in 360K disk:..

1000 Fls 890108 1317 (Files)..
Copy, Delete, Move..

current devices.. to devices:..
B: HNB9108A flpl vol name
306176 bytes free 11007/1440 sec
DLD new
CFILNAME.EXT BYTES filename_ext

9540	Hn891 lis
HNB189P1.TXT 715	Hn891p1.txt
HACK234.TXT 6795	Hn891p2.txt
HNB189P5.TXT 2046	Hn891p5.txt
HNB189P6.TXT 1431	Hn891p6.txt
HNB189P8.TXT 1083	Hn891p8.txt
16450	Hn88c lis
HNB188P1.TXT 893	Hn88cp1.txt
HNB188P2.TXT 2332	Hn88cp2.txt
HNB188P3.TXT 1332	Hn88cp3.txt
HNB188P4.TXT 2331	Hn88cp4.txt
HNB188P5.TXT 2255	Hn88cp5.txt
HNB188P6.TXT 2657	Hn88cp6.txt

4583? Hn88b lis?
HNB188P1.TXT 137 Hn88bp1.txt
HNB188P2.TXT 2048 Hn88bp2.txt
HNB188P3.TXT 2175 Hn88bp3.txt
HNB188P4.TXT 2223 Hn88bp4.txt
12994?Hn88a lis?
HNB1088P1.TXT 842 Hn88ap1.txt
HNB1088P2.TXT 2449 Hn88ap2.txt
HNB1088P3.TXT 2255 Hn88ap3.txt
HNB1088P4.TXT 2482 Hn88ap4.txt
HNB1088P5.TXT 4966 Hn88ap5.txt

Steve:..

Thanks for the files. We will
try to edit them into 4 files
with one 'the HACKER' in each
file as shown. Although we have
an MS-DOS Machine, the above
information (file size) was
derived from our 'asds'
(MS-DOS) procedure written in
SuperBASIC for the QL..

Current MS-DOS Commands
supported by 'asds' are:..

A) B: (change default drive to
B: (flp2))..

B) DIR (directory of drive B:
(flp2))..

B) TYPE FILENAME.EXT (print
filename_ext on flp2_ to screen
85 columns wide)..

B) VER (prints to screen DOS
version emulated (2.11, 360K;
3.1, 720K))..

B) DOS=2 (convert to DOS 2.11)..
B) DOS=3 (convert to DOS 3.1)..

B) CLS (clear screen)..
B) CHDIR (change directory)..

B) EXIT or QUIT (return to
SuperBASIC. Since this whole
procedure is written in
SuperBASIC, the standard QL
'BREAK' (ctrl space) will also
return to SuperBASIC)..

We have used the TYPE command to
look at a few of your files..

Our next project will be to
'copy' (Copy) them from 5.25in
360K DOS disk to 3.5in 720K QL
disk. We hope to have the 'copy'
procedure done tomorrow..

When we get the 'copy' procedure
done, we will 'copy' the
SinLink files to 5.25in 360K
DOS disk and send them to you.
We will also try to send you a
disk with 'HACKER' files as
they will appear in the SLIX
permanent data base so you can
check them for accuracy and
suitability...

Sc890105 1054-1125/Call from:
Howard

Lichtenstein acd tel numb?;;
2719 Memberly Drive;; Belmont;;
CA;; 94002..

Howard found out about us from:
Walt Johnson and George
Mockridge..

He is looking for a source to
purchase a TS2068..

He tried Sunset Electronics and
RHS but was told they couldn't
deliver one immediately..

We suggested some of the FOR
SALE ads in SinLink and:
Brooklyn Closeout Corp.;;
ACD-TEL-NUMB?;; 167 Clymer
St.;; Brooklyn;; NY;; 11211..

We also suggested a QL from:
Sharp's 804 730 9697..

Howard has a PC Clone and his
wife has a Macintosh. He is
interested in FORTH, MODULA 2,
and PASCAL...

Sc890104/PC UNIX SIG Meeting;;
Speaker: Brian
Breakerhoff 415 683 2625..
Subject: Everex low cost UNIX
(ENIX) for the 80386:..
(2) users \$200..
unlimited users .. +\$200- \$400..
documentation +\$200..
...

Sc890104/Note to: Andy
Hradesky..
Andy:..

We have inclosed (2) double size
copies of SinLink 8901 for
pasteup into TIMELINE 8901..

We have also inclosed a
complete? SinLink 8901 with a
SinLink Subscription List..

Please provide us the cost of
publishing and mailing
TIMELINE to these folks to
fulfill their SinLink
subscriptions and we will
provide a SinLink check to
American Micro Connection for
this cost..

We have also inclosed Donald
Lambert's check (made out to
'American Micro Connection')
for the Sync's he borrowed from
the SLIX library. Please apply
this to the SinLink
Subscription Fulfillment
Account..

Don suspects he is a TIMELINE
subscriber. Can you provide a
dues amount, dues paid date,
and last issue date for him?..

We need this information so that
we can verify that he is a
subscriber and how much of his
subscription remains to cover
possible deposit deductions...

Sc890103 1700/Call from: Norman
Owens (Sc881227 1400)..

Nora reports he has acquired a
Shugart compatible disk drive
(40 track, double sided?)..

We recommended a disk interface
for his TS1500 instead of a
Stringy Floppy..

He said he would contact the
following TS vendors about
TS1500 disk interfaces and keep
us informed of his progress:..

Larken 613 835 2680..
John Offiger Company;;
acd tel numb?;; 11601 Whidbey
Drive;; Cumberland;; IN;;
46229, (from: CTN 8805p97)..

AERCO 512 451 5874..
Norm:..

It was good talking to you..
When you contact the TS1500 disk
interface vendors, it would be
good if you could check with
them about the possibility of
reading and writing an
MS(PC)-DOS disk...

Sc890103 1344/Postcard from: Tom
Phillips 904 739 2580;; 2942
Christopher Road;;
Jacksonville;; FL;; 32217..

Tom reports he has the following
items FOR SALE:..

Item Price \$&H..

QL Printer w/3 ribbons \$125 \$5..
TS2050 MODEN \$35 \$3..
Mathewson Keyboard Interface
..... \$35 \$3..
66 Key Keytronic Keyboard-
wired for TS2068 \$30 \$3..
TS2040 printer \$25 \$3..

9in TTL Monochrome Monitor,
needs power supply, no case
..... \$25 \$5..
BK Hunter VMH board .. \$30 \$3..
2 Tandon Disk Drives- full
height, DSDD. need: align, 1
door latch \$30 \$5..
TS2020 cassette player \$25 \$3..
Bell Systems Answering Machine
..... \$30 \$3..
More complete information in
SLIX files, or contact Tom
directly...

Sc890104_0910 Sc8901_END....

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1989 Feb 02 13:32:40
flpl ss89202a.lis
Sf890202.1329;; Words 919;; SLIX;; Shareware file;;
Filename ss89202a (corewar) (Pages 1)..

CORE WAR documentation By: Timothy Swenson...

In May 1984 issue of Scientific American, A. K. Dewdney in his Computer Recreations column describes a game called Core War. The game is run by a monitor program called MARS (Memory Array Redcode Simulator). Essentially what the program does is to control two other programs written in an assembly-like language called REDCODE. The two programs are designed to try to destroy each other. They do this by somehow stopping the other program from running. They can put bad data in the middle of the program, take over control of the program, etc..

MARS is a computer simulation of a computer. It uses an array of strings to simulate memory spaces and executes programs that run in these spaces. The program executes one line of code from one Redcode program and then another line from the other. This continues until MARS can not execute a command. The program that bombs out is the program that loses. Redcode is comprised of the following commands:..

MOV A B- Move contents of address A to address B..
ADD A B- Add contents of address A to address B and put results in address B..
SUB A B- Subtract contents of address A from address B and put results in address B..
JMP A--- Transfer control (jump) to address A..
JNZ A B- Jump to address A if contents of address B is equal to zero..
JNG A B- Jump to address A if contents of address B is greater than zero..
DJZ A B- Subtract one from contents of address B and jump to address A if contents of address B is equal to zero..
CMP A B- Compare contents of address A and B then skip next instruction if unequal..
DAT A--- Non-executable statement, used for storage of numbers.
RET----- Used to end program. Not really part of REDCODE but it is used by the program to know the end of your program when reading it in from the data statements..

All of the addresses in Redcode are relative. PC is the Program Counter, this controls what line MARS is executing. MOV 0 1 means to put the contents of address PC+0 (in other words the current line) and put it in address PC+1 (the next line). Negative numbers are allowed to mean addresses before the PC..

Redcode does make provisions for direct and indirect addressing. A # before a number is direct addressing and an @ is used for indirect. MOV #0 1 means to put the number 0 in the address 1+PC. In indirect the commands:..

DAT 20..
MOV 0 2-1..

means to put the contents of address 0+PC and store it at the address pointed at by the number at PC-1 (the previous line). MARS goes and gets the number stored at PC-1 and finds 20, it then puts the data at that address, PC+20..

Indirect addressing may be used for both A and B arguments, direct may be used for A, but direct may only be used for B with the CMP command. All other commands may not use direct addressing of B..

I must spend a minute and talk about the DAT command. The command itself does not execute, but it tells MARS that data is stored at this address. DAT statements are used similarly to variables. If you are going to add the contents of two addresses then they must be DAT statements. If a number is stored in an address that is not preceded by DAT it is considered a bug and the program bombs out..

The MOV and DAT commands interact different together. If you MOV #0 20 and address PC+20 is a DAT statement the 20 is added so that at PC+20 is stored DAT 0. But if PC+20 is not a data statement then just 0 is stored at PC+20. This is used to put "bombs" in programs. If you can drop a 0 in the middle of the other program then MARS will halt when it gets to that line causing the other program to crash..

Here are a few example programs:..

INP- copies itself to the next address and plows through

memory:..

MOV 0 1..
RET..

Dwarf- This puts 0's in every 5th address, laying down a barrage of 0's:..

DAT -1..
ADD #5 -1..
MOV #0 2-2..
JMP -2..
RET..

Gemini- This program copies itself forward 100 addresses in memory and then moves control to the copy:..

DAT -2..
DAT 99..
MOV 2-2 2-1..
CMP -3 #8..
JNP 4..
ADD #1 -5..
ADD #1 -5..
JMP -5..
MOV #2 93..
MOV #99 93..
JMP 93..
RET..

To run the program, type the two programs you want into the data statements in lines 2000 (prog #1) and 3000 (prog #2). Then RUN the program. As each line of code is executed it is printed out on the screen along with the address at which it is at. This way you can the progress of the two programs..

Also included in the program is a procedure called list memory. This procedure copies out the contents of the memory array to the screen. This way you can see what is in memory..

There is a constant called top_mem. This defines how big the memory array is. If you find memory too small, just increase this constant..

Sr890202.1300 Ss89102a_END....

1989 Feb 02 14:46:34	430 ELSE
raul sys bt2_top	440 pc_prg2=pc_main
100 REMark corewar_890202.1427	450 END IF
by Tim Swenson...	460 IF pc_prg1>top_mem THEN pc
110 DEFINE PROCEDURE svc: DELETE	prg1=pc_prg1-top_mem
flpl ss89202b: SAVE flpl ss8920	470 IF pc_prg2>top_mem THEN pc
2b bas: END DEFINE	prg2=pc_prg2-top_mem
120 top_mem=1000	480 END REPEAT main_loop
130 DIM memory\$(top_mem,14)	490 STOP
140 prg1=2000	500 DEFINE FUNCTION get_num(addr
150 prg2=3000	ess)
160 pc_prg1 = RND(1 TO 1000)	510 LOCAL temp\$
170 pc_prg2 = RND(1 TO 1000)	520 temp\$=memory\$(address)
180 IF ABS(pc_prg1-pc_prg2)=100	530 IF temp\$="" THEN goto_err
THEN GO TO 160	r
190 load prog	540 IF temp\$(1 TO 3) (<) "DAT"
200 CLS #2: CLS #0 : CLS	THEN goto error
210 PRINT #2, " P R O G R A M #	550 RETURN temp\$(5 TO)
1"	560 END DEFINE get_num
220 PRINT " P R O G R A M # 2"	570 DEFINE PROCEDURE sep_line
230 REPEAT main_loop	580 LOCAL blank
240 pc_main = pc_prg1	590 IF LEN(cad\$(1)<5 THEN goto_e
250 prg=1	rror
260 cad\$=memory\$(pc_main)	600 arg2 = 0
270 PRINT #2,pc_main;" ";cad\$	610 opcode\$=cad\$(1 TO 3)
280 sep_line	620 cad\$=cad\$(5 TO)
290 evaluate	630 opnodea=1 : opnodeb=1
300 IF pc_prg1=pc_main THEN	640 IF cad\$(1)="" THEN opnode
pc_prg1=pc_prg1+1	a=0
320 ELSE	650 IF cad\$(1)="" THEN opnode
pc_prg1=pc_main	a=2
340 END IF	660 IF opnodea(<)1 THEN cad\$=ca
350 pc_main = pc_prg2	d\$(2 TO)
360 prg=2	670 IF (opcode\$="JMP") OR (opc
cad\$=memory\$(pc_main)	ode\$="DAT") THEN arg1=cad\$: RET
380 PRINT pc_main;" ";cad\$	urn
390 sep_line	680 blank = "" INSTR cad\$
400 evaluate	690 arg1 = cad\$(1 TO blank-1)
410 IF pc_prg2=pc_main THEN	700 cad\$=cad\$(blank+1 TO)
pc_prg2=pc_prg2+1	

890201;; ESFC;; FOR 8.5x11 USE 0.980SCALE;; FOR 5.5 x 8.5 USE 0.647..

```

710 IF cad$(1)="" THEN opmode
b=0
720 IF cad$(1)="" THEN opmode
b=2
730 IF opmodeb(>1) THEN cad$=ca
d$(2 TO)
740 arg2=cad$
750 END Define sep_line
760 Define PROCEDURE evaluate
770 IF opmodea=0 THEN a=arg1
780 IF opmodea=1 THEN a=pc_mai
n+arg1
790 IF opmodea=2 THEN a=pc_mai
n+get_nua(pc_mai+arg1)
800 IF opmodeb=0 AND opmodeb(>
"CHP" THEN PRINT #0,"Direct mode
not allowed to second arguemen
t "; STOP
810 IF opmodeb=0 THEN b=arg2
820 IF opmodeb=1 THEN b=pc_mai
n+arg2
830 IF opmodeb=2 THEN b=pc_mai
n+get_nua(pc_mai+arg2)
840 IF a>top_aea THEN a=a-top_a
ea
850 IF b>top_aea THEN b=b-top_a
ea
860 IF opmode="MOV" THEN MOV:
RETURN
870 IF opmode="ADD" THEN ADD:
RETURN
880 IF opmode="SUB" THEN SUBT:
RETURN
890 IF opmode="JMP" THEN JMP:
RETURN
900 IF opmode="JNZ" THEN JNZ:
RETURN
910 IF opmode="JNG" THEN JNG:
RETURN
920 IF opmode="DJZ" THEN DJZ:
RETURN
930 IF opmode="CHP" THEN CHP:
RETURN
940 IF opmode="DAT" THEN RETUR
n
950 goto error
960 END Define evaluate
970 Define PROCEDURE load_prog
980 LOCAL count, prog$
990 RESTORE prog1
1000 count = pc_prg1
1010 REPEAT loop
1020 READ prog$
1030 IF prog$="RET" THEN EXI
T loop
1040 IF count>top_aea THEN c
ount=count-top_aea
1050 memory$(count)=prog$
1060 count=count+1
1070 END REPEAT loop
1080 RESTORE prog2
1090 count = pc_prg2
1100 REPEAT loop
1110 READ prog$
1120 IF prog$="RET" THEN EXI
T loop
1130 IF count>top_aea THEN co
unt=count-top_aea
1140 memory$(count)=prog$
1150 count=count+1
1160 END REPEAT loop
1170 END Define load_prog
1180 Define PROCEDURE goto_error
1190 IF prog=1 THEN PRINT #2,"
E R R O R"
1200 IF prog=2 THEN PRINT "E R
R O R"
1210 CLS #0
1220 PRINT #0,"A Winner has bee
n found."
1230 PRINT #0,"Player #;prog;"
has lost."
1240 STOP
1250 END Define goto_error
1260 Define PROCEDURE MOV
1270 IF opmodea=0 THEN

```

```

1280 temp=memory$(b)
1290 IF temp(1 TO 3)="DAT"
THEN
1300 memory$(b)="DAT "&a
1310 ELSE
1320 memory$(b)=a
1330 END IF
1340 ELSE
1350 memory$(b)=memory$(a)
1360 END IF
1370 END Define MOV
1380 Define PROCEDURE ADD
1390 LOCAL temp
1400 IF opmodea=0 THEN
1410 temp=get_nua(b)+a
1420 ELSE
1430 temp=get_nua(b)+get_nu
a(a)
1440 END IF
1450 memory$(b)="DAT "&temp
1460 END Define ADD
1470 Define PROCEDURE SUBT
1480 LOCAL temp
1490 IF opmodea=0 THEN
1500 temp=get_nua(b)-a
1510 ELSE
1520 temp=get_nua(b)+get_nu
a(a)
1530 END IF
1540 memory$(b)="DAT "&temp
1550 END Define SUBT
1560 Define PROCEDURE JMP
1570 pc_mai = a
1580 END Define JMP
1590 Define PROCEDURE JNZ
1600 LOCAL temp
1610 temp = get_nua(b)
1620 IF temp=0 THEN JMP
1630 END Define JNZ
1640 Define PROCEDURE JNG
1650 LOCAL temp
1660 temp = get_nua(b)
1670 IF temp>0 THEN JMP
1680 END Define JNG
1690 Define PROCEDURE DJZ
1700 LOCAL temp
1710 temp = get_nua(b)
1720 temp=temp-1
1730 memory$(b)="DAT "&temp
1740 IF temp=0 THEN JMP
1750 END Define DJZ
1760 Define PROCEDURE CHP
1770 LOCAL tempa,tempb
1780 IF opmodea=0 THEN
1790 tempa=a
1800 ELSE
1810 tempa=get_nua(a)
1820 END IF
1830 IF opmodeb=0 THEN
1840 tempb=b
1850 ELSE
1860 tempb=get_nua(b)
1870 END IF
1880 IF tempa<tempb THEN pc_m
ai=pc_mai+2
1890 END Define CHP
1900 Define PROCEDURE list_memo
ry
1910 FOR x=1 TO top_aea
1920 PRINT memory$(x)
1930 NEXT x
1940 END Define list_memory
1950 DATA "DAT -2","DAT 99","MOV
3-2 3-1","CHP -3 38","JMP 4","A
DD #1 -5"
1960 DATA "ADD #1 -5","JMP -5","
MOV #2 93","MOV #99 93","JMP 93
","RET"
1970 DATA "DAT -1","ADD #5 -1","
MOV #0 3-2","JMP -2","RET"

```

9. TS2068_GAME AD from:..
Oscar Eugenio Macia..
Billinghurst 1565 piso 2 dpto
6..
(1425) Capital Federal, Bs. As..
ARGENTINA..

SOFTWARE FOR TS 2068/2048 & ZX Spectrum 16/48/128K

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Panther, Basil the mouse, Rogue Trooper, Scooby Doo, Captain America, Asterix,
Jackie & Wade, Dracula, Grange Hill, Max Headroom, Indiana Jones, Slaine the
King, Spy vs Spy I II & III, The Eidolon, The Thundercats, The Never Ending
Story, The Flintstones I & II, Knight Rider, Charlie Chaplin, Vectron, Yogi Bear,
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& II, Pub Games, 180, Frank Bruno's Boxing, Rocky (box), Tour of Force, Crazy
Cars, Test Cricket, Kiding the Rapids, Basket Master, Winter Olympiad, World
Cup, etc.

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Bubble Bobble, Commando, Gun Socke, Ikari Warriors, Indiana Jones, International
Karate I & II, Karnov, Psycho Soldier, Side Arms, Buggy Boy, Street Fighter,
Star Wars, Rolling Thunder, Rampage, Rastan, Rygar, Galaxian, Flying Shark,
1942, Gyrzor, Gauntlet I & II, Quartet, Star Glider, Out Run, World Cup, Alien
Syndrome, Operation Wolf, 1943, etc.

Others: Mercenary, Micronaut one, Nebulus, Crosswise, Sidewise, Trantor, Battle
Ships, Driller I & II, Bionic Commando, Hoppin' Mad, Blood Brothers, Skate
Crazy, Action Force I & II, Driller, Hysteria, Hundra, Game Over, Freddy
Hardest, Firefly, Energy, Draughts Genius, Salamander, Ramparts, Terramex, The
Fury, Cerius, Shockway Rider, Mizball, Thrust I & II, Phantis, Killed Until
Dead, Implosion, Jack the Nipper I & II, Agent x I & II, Koronis Rift, Black
Lamp, Bravestarr, Centurions, Dark Sceptre, Plexar, Astronomer I & II, Super
Chess I II & III, Laser Basic, Beta Basic, Wham 2068 (the music box), The Last
Ninja 2, Typhoon, 19, Impossible Mission 2, Samurai Warrior, etc.

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(1425) Capital Federal, Bs. As.
ARGENTINA.

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STANFORD UNIVERSITY
JORDAN HALL (in the 0000)
ROOM 300C (downstairs)

DATES: FEBRUARY 4, 11, 18, 25, 1989
MARCH 4, 11, 18, 25, 1989
APRIL 1, 8, 15, 22, 1989

E B Z U G EAST BAY Z80 USER GROUP
1619 GRANT STREET #6
BERKELEY, CALIFORNIA 94703
(415) 843-5507

HOST: JOHN EZIKE

MEETINGS: FOURTH WEDNESDAY OF EACH MONTH, 7:30 P.M.
WEST BRANCH BERKELEY PUBLIC LIBRARY AT
THE CORNER OF UNIVERSITY AND SAN PABLO.
BRING EQUIPMENT AND POWER STRIPS.

DATES: FEBRUARY 22, 1989
MARCH 22, 1989
APRIL 26, 1989

P U G PENINSULA USER GROUP
311 MICHELLE LANE
DALY CITY, CALIFORNIA 94015
(415) 878-1773

PRESIDENT: GEORGE MCKRIDGE
HOST: WALT JOHNSON

MEETINGS: THIRD SUNDAY OF EACH MONTH, 1:00 P.M.
PENINSULA HOSPITAL
1283 EL CAMINO REAL
DURLINGATE, CA

DATES: FEBRUARY 19, 1989
MARCH 19, 1989
APRIL 16, 1989

T S S U U TIMEXsinclair SILICON VALLEY USERS
6675 CLIFFORD DRIVE
CUPERTINO, CALIFORNIA 95014
(408) 253-3175

HOST: BILL MILLER

MEETINGS: LAST WEDNESDAY OF EACH MONTH - 7:30 P.M.
CUPERTINO LIBRARY
COMMUNITY ROOM
10400 TORRE AVENUE
CUPERTINO, CA 95014
BRING YOUR EQUIPMENT
ROOM ACCESS RMP
LEADING TO BOTTOM OF
CIRCULAR BUILDING

DATES: FEBRUARY 22, 1989
MARCH 22, 1989
APRIL 26, 1989

TAS-DAY, INC. TAMPA AND SUNCOAST BAY AREA MICRO-
COMPUTER USERS' GROUP, INC.
5956 46TH AVENUE NORTH
SAINT PETERSBURG, FL 33709
(813) 546-4278

HOST: GEORGE FEATHERMAN

MEETINGS: SECOND SATURDAY OF EACH MONTH, 7:30 P.M.
BEACH FEDERAL SAVINGS AND LOAN
7777 NORTH SEMINOLE BLVD.
SEMINOLE, FL

DATES: FEBRUARY 11, 1989
MARCH 11, 1989
APRIL 8, 1989

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COMPUTER **sinclair**

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